

Message Text

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C O N F I D E N T I A L STATE 087444

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IL 1587, QUARTZ CRYSTALS

FOLLOWING IS US POSITION ON SUBJECT ITEM:

1) ACCEPT NETHERLANDS PROPOSAL TO CHANGE THE TEMPERATURE RANGE IN SUB-ITEM (A)(1) FROM 120 DEGREES CENTIGRADE TO 125 DEGREES CENTIGRADE.

2) RESERVE ON JAPANESE PROPOSAL FOR CHANGE IN TE RANGE FOR NOTE 1(A). WE WISH TO STUDY FURTHER SINCE PROPOSAL MIGHT FREE CRYSTALS THAT ARE STATE OF THE ART PARTICULARLY IN THE RANGE 20 - 25 MHZ.

3) ON THE CANADIAN PROPOSAL ON (B) (PARIS 9004), WE BELIEVE THAT THERE ARE SUFFICIENT UNRESOLVED PROBLEMS THAT NO FIRM US POSITION CAN BE TAKEN WITHOUT THOROUGH TTG STUDY PRIOR TO THE THIRD ROUND. THE FOLLOWING ARE SOME
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PROVISIONAL OBSERVATIONS BASED ON CONVERSATIONS WITH

HAFNER AND STONE.

4) WHILE THE CHANGE IN (B)(2) FROM 0.0005 TO 0.0003 PERCENT WOULD NOT BE ALL THAT CRITICAL, WE NOTE THAT A QUARTZ CRYSTAL WITH A FREQUENCY STABILITY OF 0.0005 PERCENT OVER A TEMPERATURE RANGE CAN BE USED TO PRODUCE A TCXO WITH A STABILITY OF TWO ORDERS OF MAGNITUDE BETTER. WE MAKE THIS POINT BECAUSE PARAGRAPH A OF THE CANADIAN JUSTIFICATION SEEMS TO CONFUSE THE RATED STABILITY OF THE QUARTZ UNIT WITH THE ULTIMATE STABILITY OF A TCXO (WHICH IS COVERED BY IL 1529(A)).

5) THE CANADIAN PROPOSED (B)(3) WOULD, IN THE OPINION OF BOTH CONSULTANTS, FREE THE BEST CRYSTALS CURRENTLY PRODUCED. IT WOULD FREE A HIGH PRECISION AREA OF CONCERN TO THE MILITARY, SUCH AS UNITS USED IN DOUBLE OVEN PROPORTIONALLY CONTROLLED PRECISION FREQUENCY STANDARDS COVERED BY 1529(A). THE CONTROL OF TEMPERATURE IN SUCH UNITS IS OFTEN ± 0.001 DEGREES C. AND THE CRYSTAL PERFORMANCE AT A SPECIFIC TURNOVER POINT IS THE RELEVANT TEST OF THE QUALITY OF THE QUARTZ UNIT. ITS STABILITY OVER A FULL DEGREE IS SELDOM QUOTED BUT IF MEASURED WILL BE POORER THAN THE LIMIT PROPOSED.

6) WE BELIEVE A THOROUGH STUDY OF THE RELATION BETWEEN TCXO STABILITY AND BASIC QUARTZ CRYSTAL STABILITY IS NEEDED BETWEEN ROUNDS AND SUGGEST THAT OTHER PCS MIGHT ALSO STUDY THIS PROBLEM AND THE RELATION BETWEEN 1587 AND 1529(A).

7) BOTH HAFNER AND STONE ALSO EXPRESSED STRONG RESERVATIONS ON DELETION OF (B)(3) AND (B)(4), AS PROPOSED BY THE US IN THE FIRST ROUND, SINCE THESE DEFINE CHARACTERISTICS IMPORTANT IN MAXIMIZING STABILITY FOR MILITARY USE. DEL IS THEREFORE REQUESTED TO SUSPEND FURTHER ACTION ON THIS PROPOSAL (WHICH THE RECORD SHOWS WAS NOT ADOPTED IN THE FIRST ROUND) PENDING COMPLETION OF THE STUDY REFERRED TO ABOVE. KISSINGER

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